

Figure 1
Different hint extension instructions.

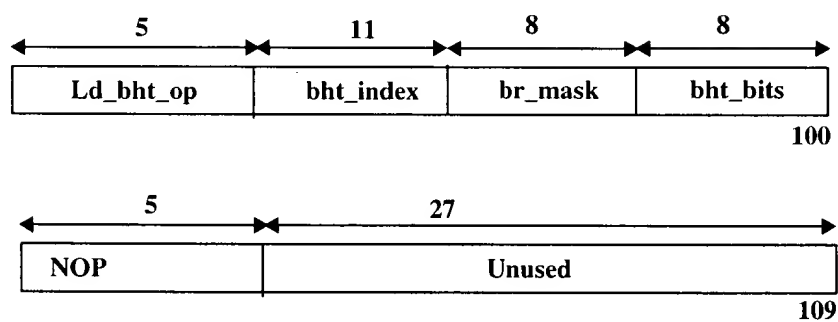


Figure 2

Overview of the Processor operation with Hint processor

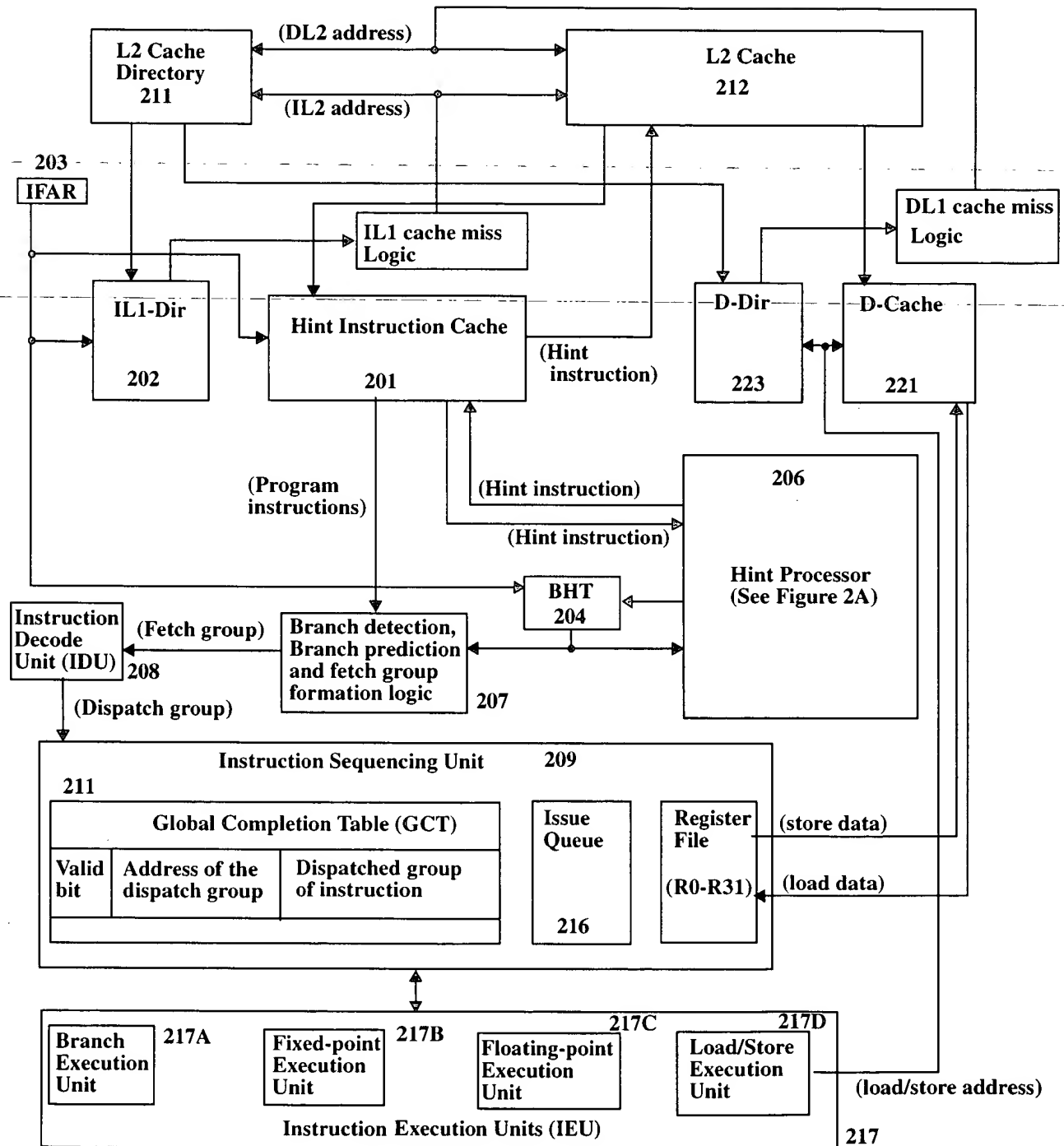


Figure 2A The Hint Processor

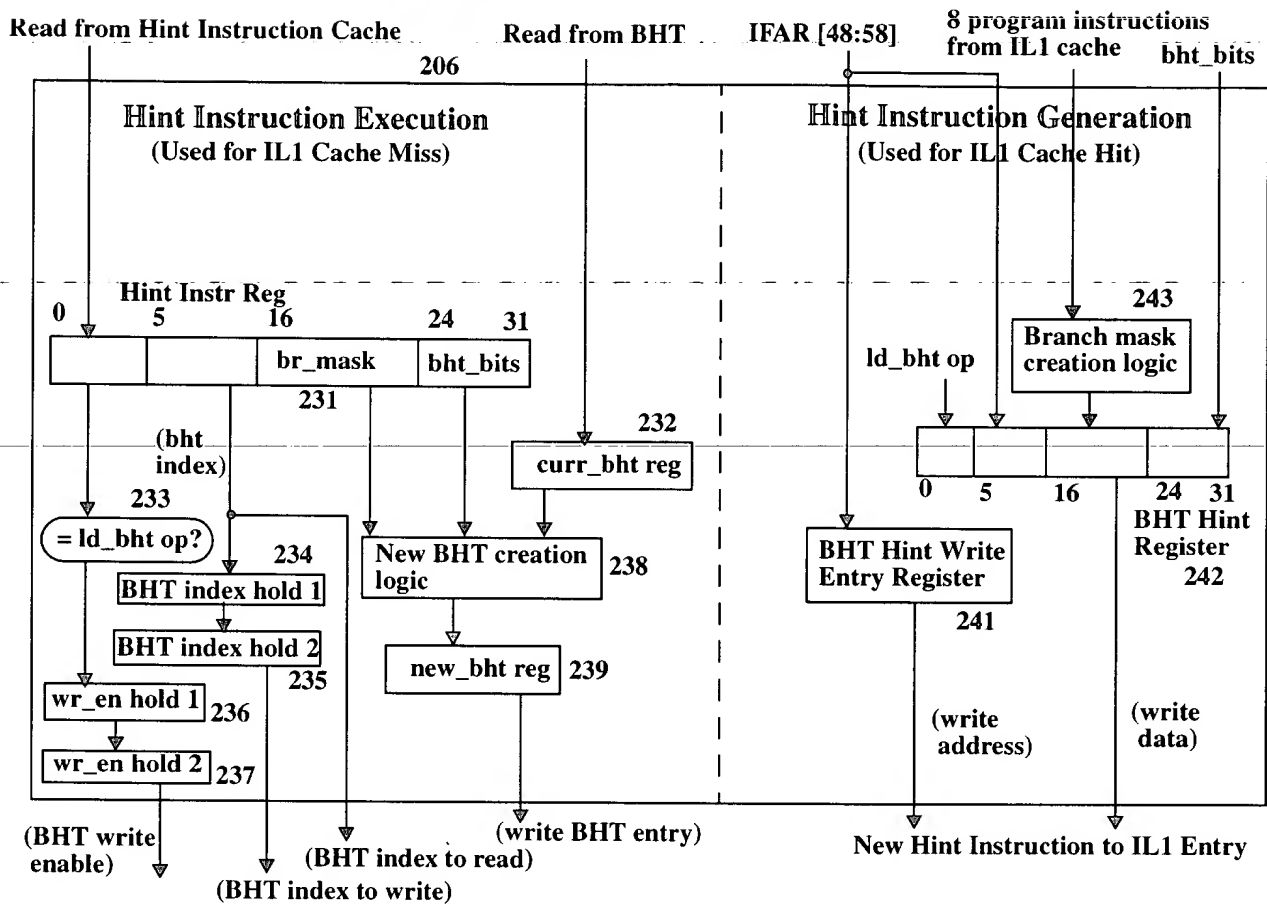


Figure 2B New BHT creation logic 238

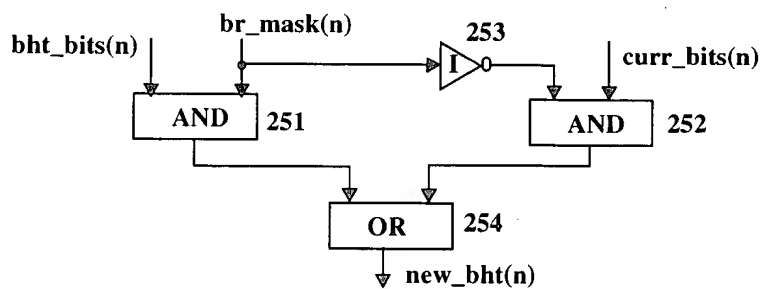


Figure 3
Overview of the Instruction Fetch Unit with Hint Processor

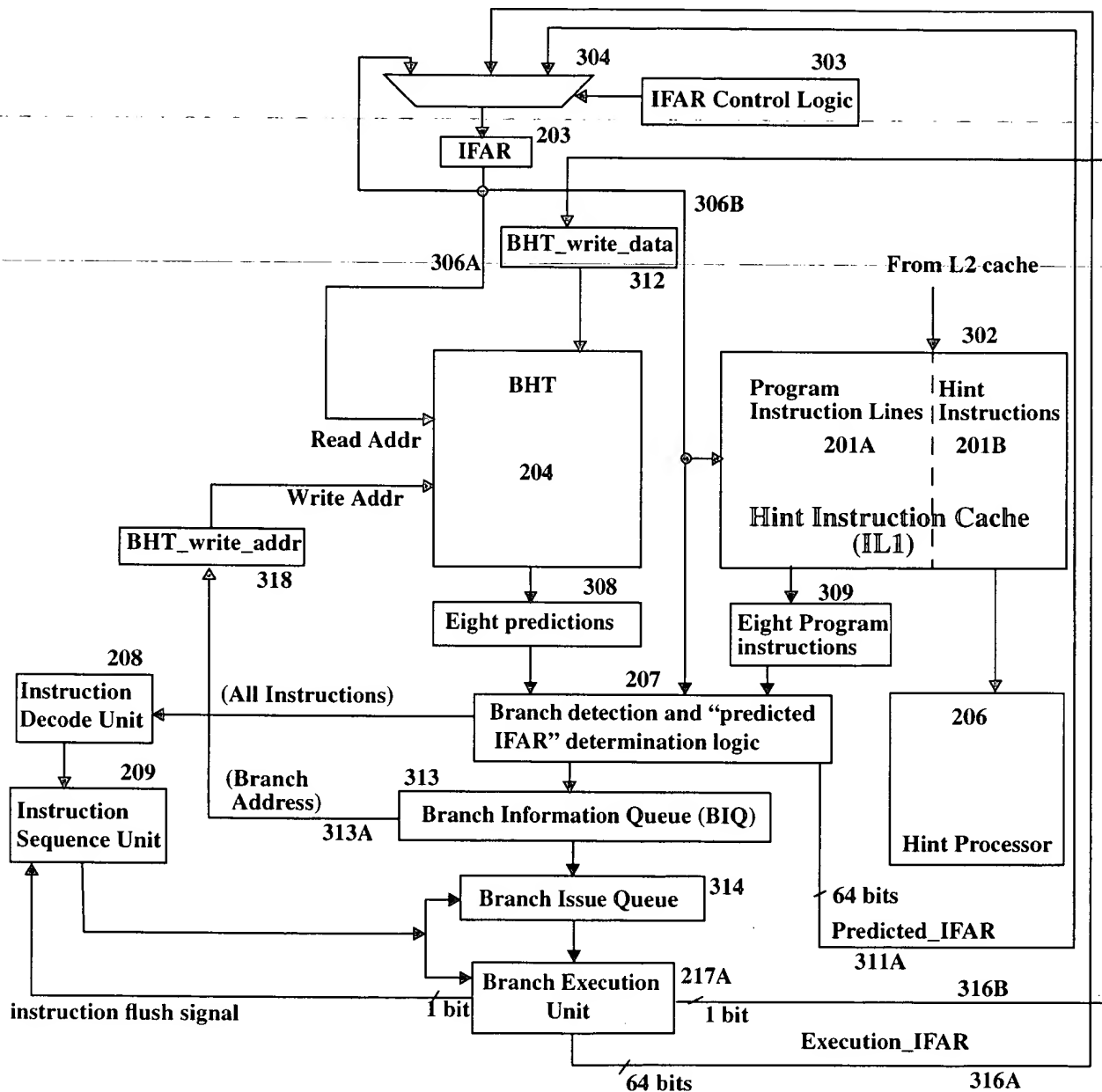
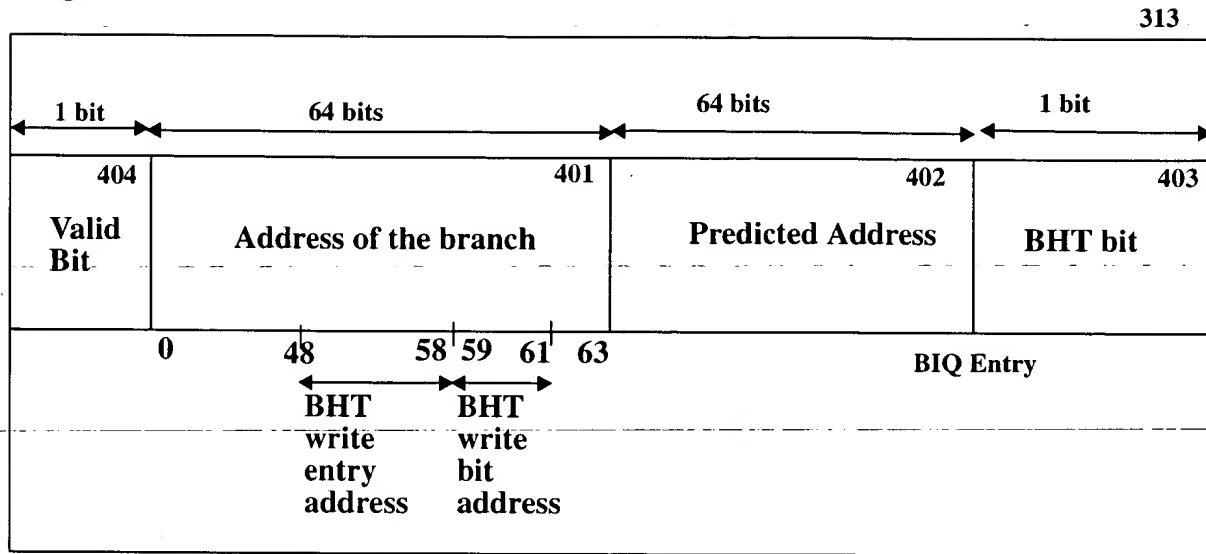
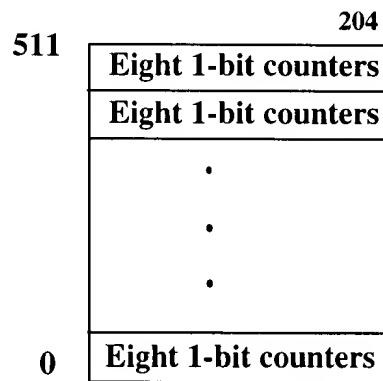


Figure 4



Branch Information Queue (BIQ)

Figure 5



BHT

Figure 6

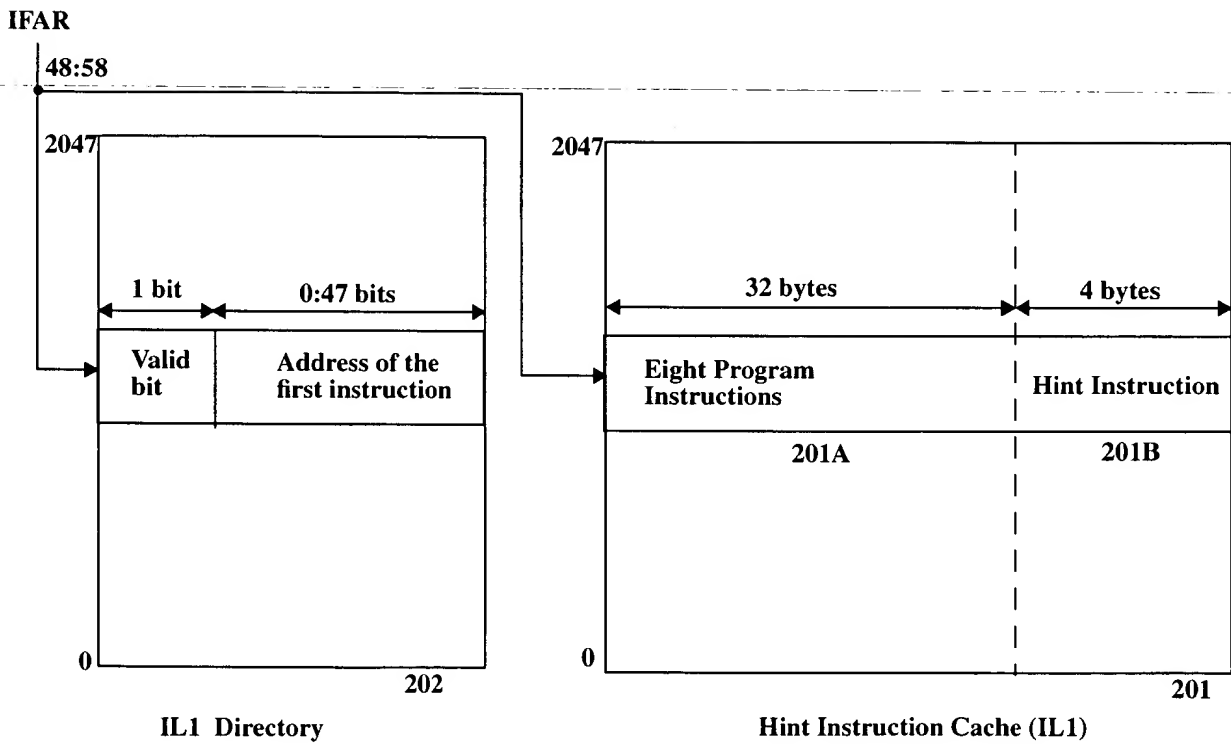
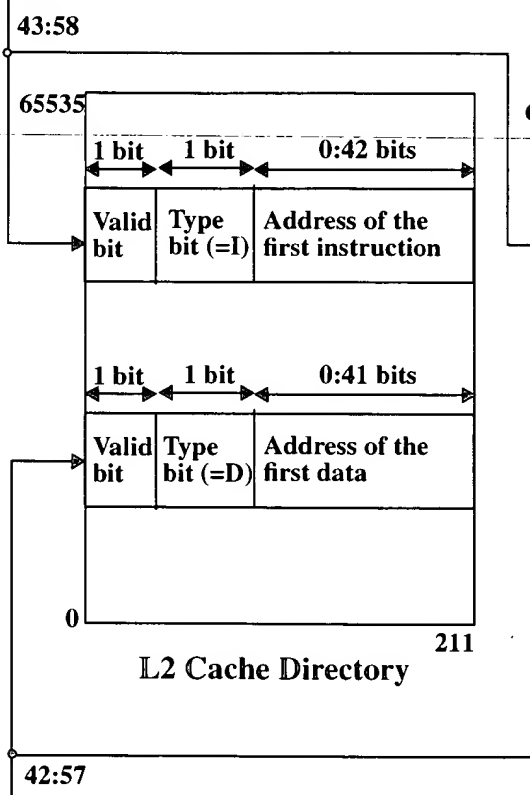
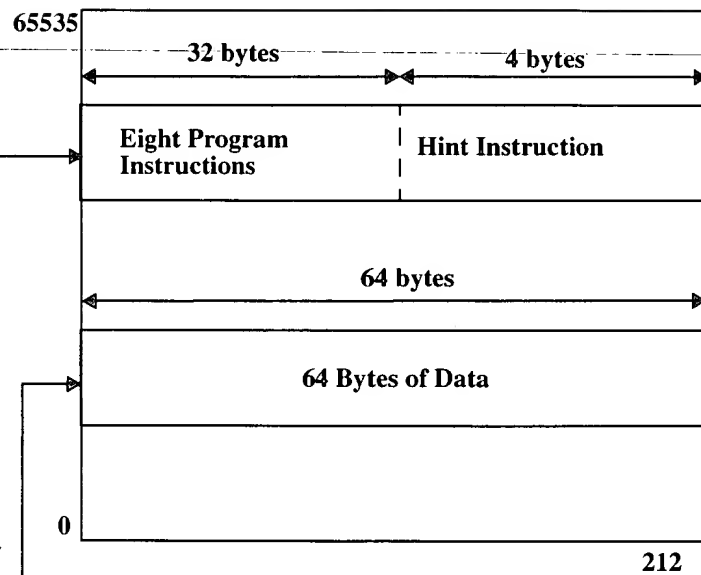


Figure 7

IL2 address



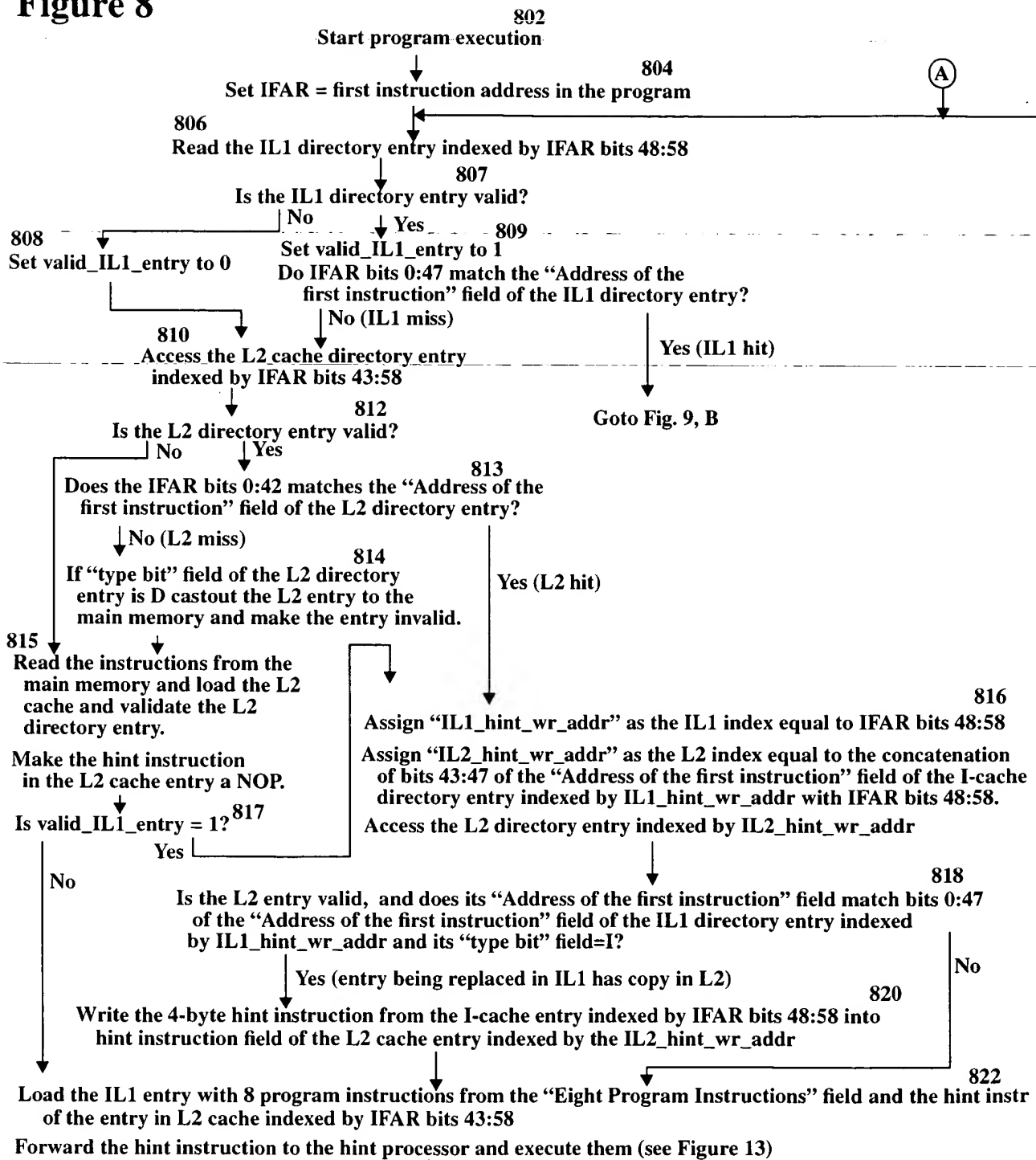
L2 Cache Directory



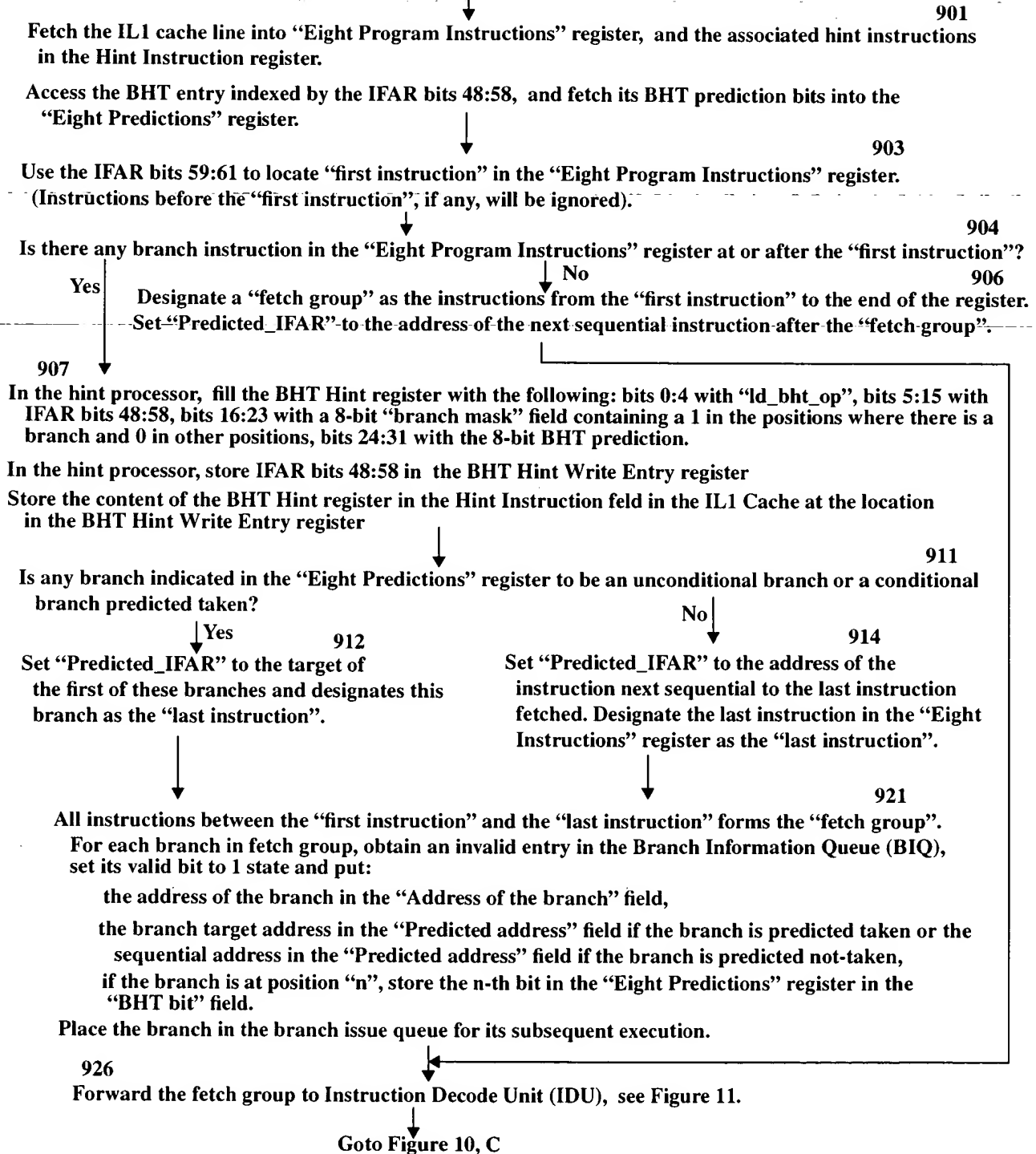
L2 Cache with Hint extention

DL2 address

Figure 8



(B) From Figure 8.



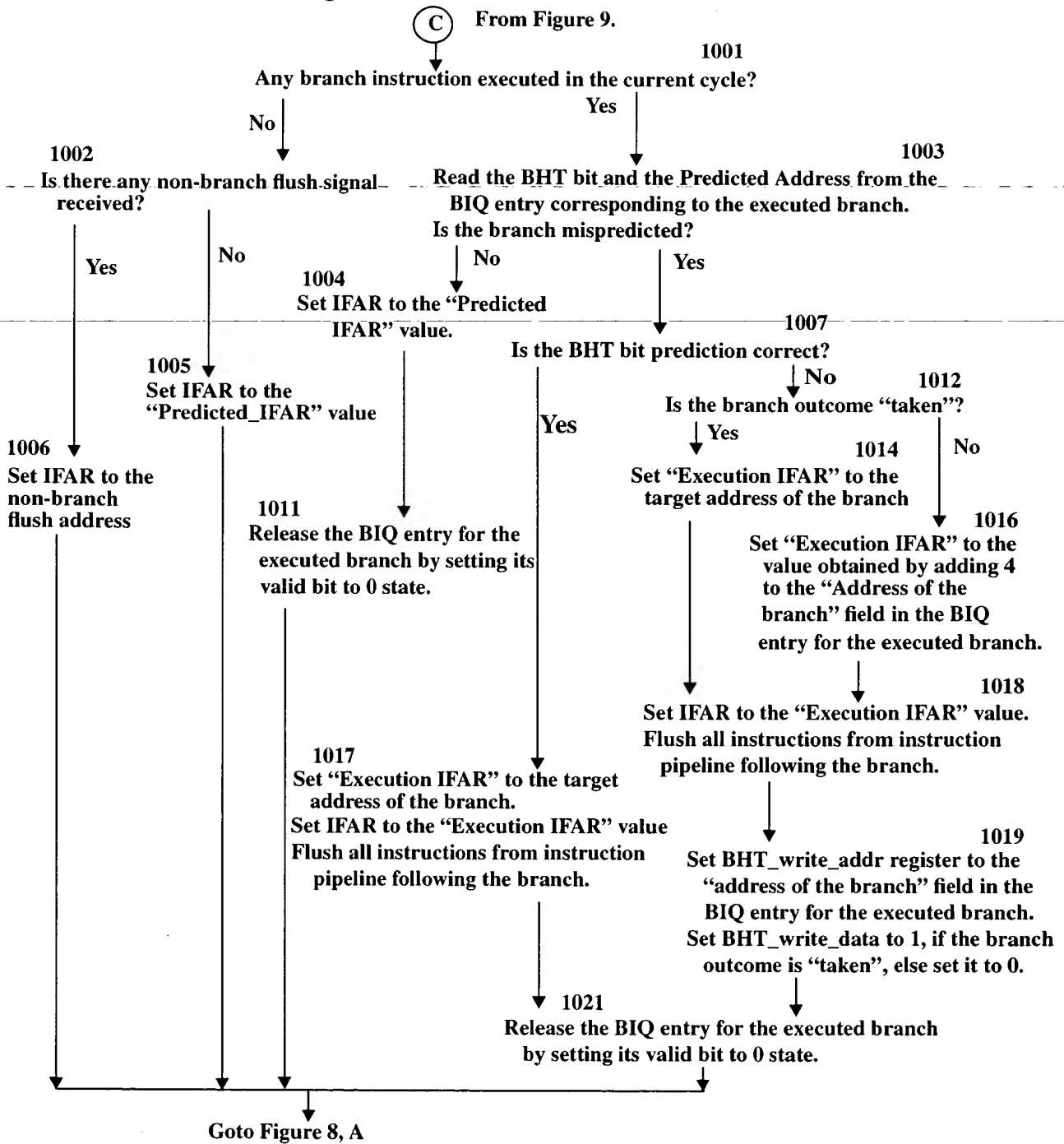


Figure 11
Instruction Decode and Dispatch

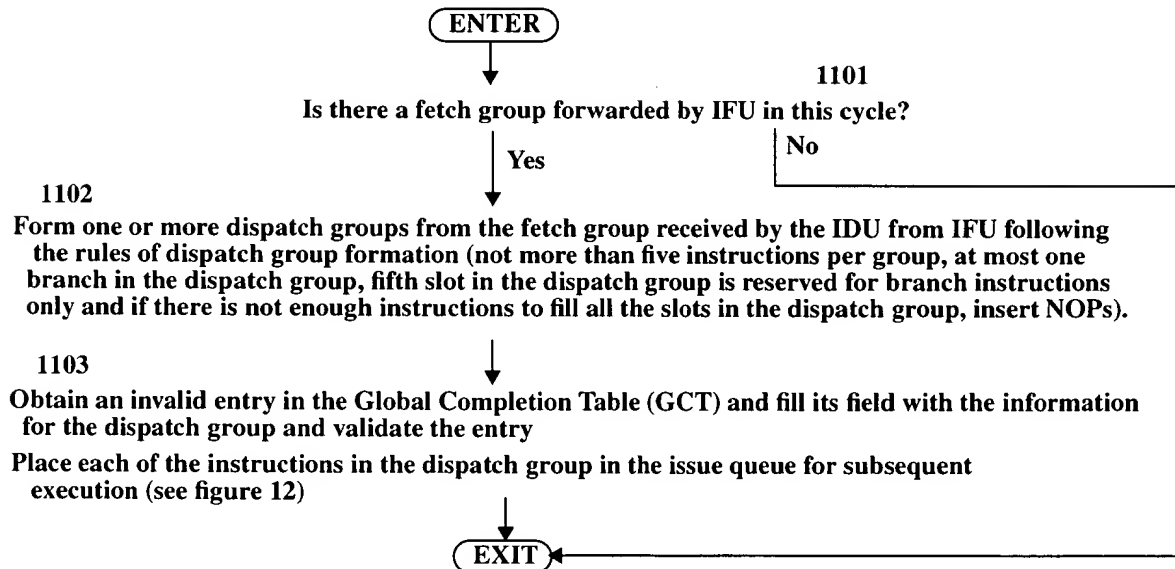
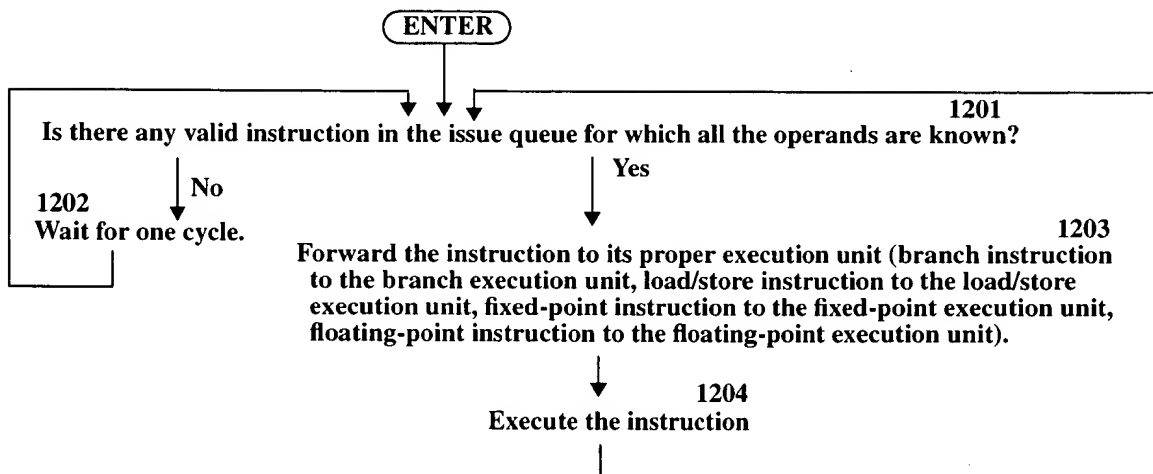


Figure 12

Instruction issue and instruction execution



Downloaded by [illegible]

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \int_0^x f(t) dt$. It is shown that $f(x)$ is a continuous function and that it satisfies the functional equation $f(x+y) = f(x) + f(y)$.

